



State of Alaska
Department of Fish and Game
Habitat and Restoration Division

Nomination for Waters
Important to Anadromous Fish

Region SOUTHCENTRAL

USGS Quad Seward D-3

Anadromous Water Catalog Number of Waterway 222-30-12920

Name of Waterway Watershed of Squaw Bay SF ☐ USGS Name ☐ Local Name

☒ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	<u>01 065</u>	<u>[Signature]</u>	<u>11/20/01</u>
Revision Year:	<u>2001</u>	Regional Supervisor	Date
Revision to:	Atlas <u>N/A</u>	<u>[Signature]</u>	<u>10/31/01</u>
	Both <u>N/A</u>	AWC Project Biologist	Date
Revision Code:	<u>F-4</u>		
		Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Cutthroat Trout	9/18/00		x		<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments:

Please see attached document "Cutthroat Trout Distribution and Abundance" for supporting documentation.

ALASKA DEPT. OF
FISH & GAME

JAN 31 2001

REGION II
HABITAT AND RESTORATION
DIVISION

Name of Observer (please print):

Signature:

Address:

Teresa Hunt

Teresa Hunt

P.O. Box 129

Girdwood, Alaska 99587

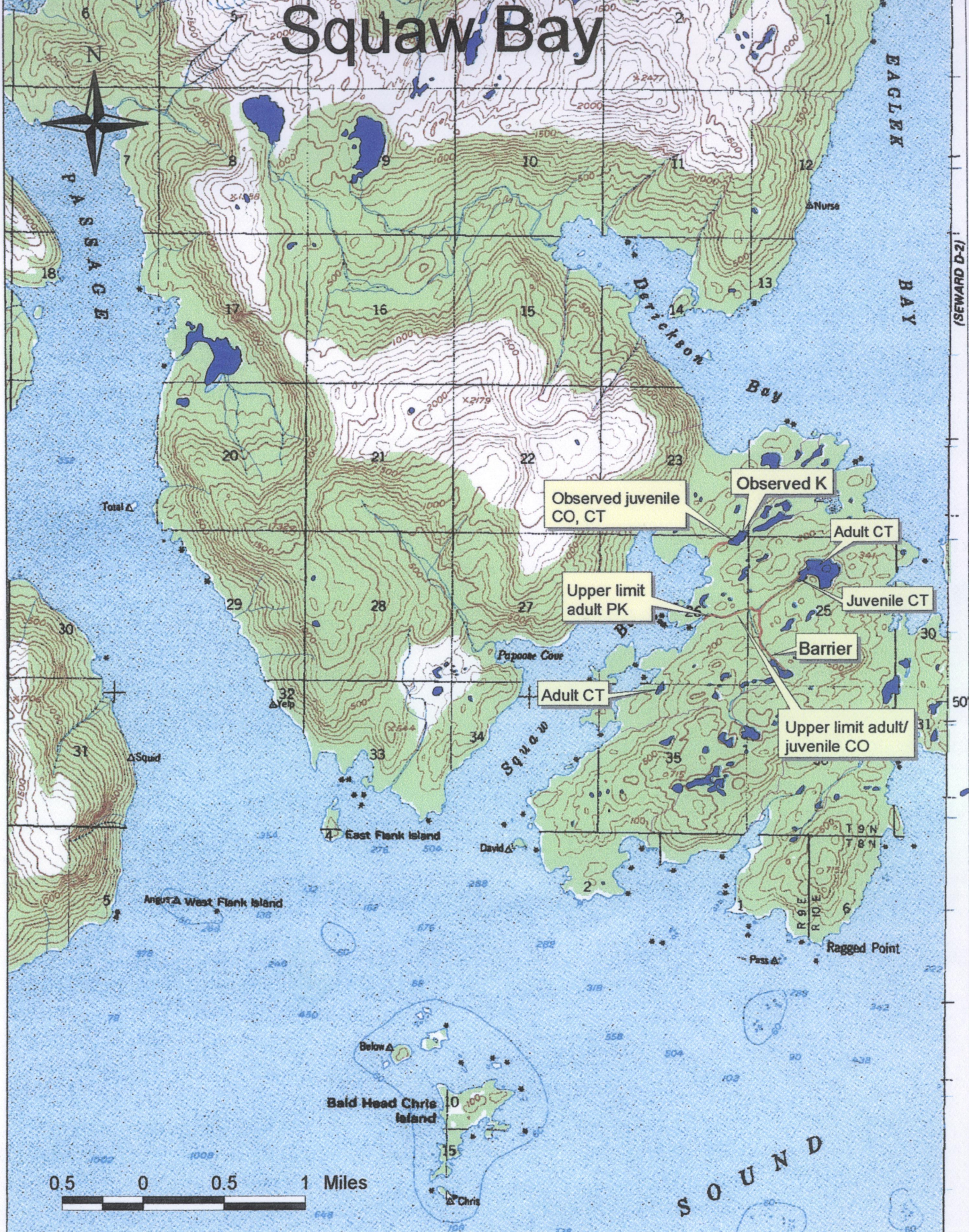
Date: 01/29/01

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: _____

Revision 3/97

Squaw Bay





United States
Department of
Agriculture

Forest
Service

Glacier
Ranger
District

P.O. Box 129
Forest Station Road
Girdwood, AK 99587

File Code: 2620-3

Date: January 29, 2001

Edward W. Weiss
Habitat Biologist
Alaska Dept. of Fish and Game
333 Raspberry Rd.
Anchorage, AK 99518-1599

ALASKA DEPT. OF
FISH & GAME

JAN 31 2001

REGION II
HABITAT AND RESTORATION
DIVISION

Dear Sir:

The Glacier Ranger District conducted stream surveys on 19 streams in Prince William Sound (PWS) during the 2000 field season. Of those systems sampled the survey identified undocumented fish species in two basins in Jackpot Bay (ADF&G 226-20-16080-0020, 226-20-16090-999), three tributaries to Squaw Bay (ADF&G 222-30-12920, 222-30-199, and 222-30-199), one inlet to Nassau Fiord (ADF&G 226-20-194), one inlet stream to Port Wells (ADF&G 223-20-199), and two inlet streams to Puffin Cove (ADF&G 226-50-16106, 226-50-16098). Methodology to surveys conducted included minnow trapping, snorkel counts and hook-line. The results of these surveys indicate that a number of streams surveyed hold species of both adult and juvenile salmon, trout and char that are either missing from the Anadromous Waters Catalog or have partial coverage within the system.

Specifically, those undocumented species trapped within the Jackpot system comprised 654 juvenile coho salmon, and 19 cutthroat trout. Within the upper portion of the basin 235 juvenile Dolly Varden char were found in a previously undocumented region. A total of 121 adult coho, 3 king salmon and 16 cutthroat trout were observed or sampled by hook and line. Sampling was conducted on a small, unnamed basin in Jackpot Bay. Results of minnow trapping resulted in nine juvenile Dolly Varden and 11 juvenile cutthroat trout.

Streams surveyed in Squaw Bay were snorkeled and the fish species identified included (ADF&G 222-30-12920) 143 cutthroat trout found throughout the system. Additionally, one adult cutthroat trout was caught by hook and line. Another unnamed stream snorkeled in Squaw Bay (ADF&G 222-30-199) identified 5 juvenile coho salmon, one juvenile king and 5 juvenile cutthroat trout. The last stream in Squaw Bay was an unnamed stream (ADF&G 222-30-199) that was sampled by hook and line. A total of 15 adult cutthroat trout were identified in this system.

Trapping and snorkeling techniques were used on two streams in Puffin Cove. The first stream sampled (ADF&G 226-50-16106) using minnow traps caught 197 juvenile coho salmon and 55 Dolly Varden. Snorkeling produced 196 juvenile coho and 11 Dolly Varden. Adult red salmon totaling 67 fish were observed throughout the system. The second system sampled (ADF&G 226-50-16098) with minnow traps found 139 juvenile Dolly Varden, and snorkeling produced 836 Dolly Varden. A total of 6 adult Dolly Varden were sampled by hook and line.



Subsistence Fisheries Project

Cutthroat Trout Distribution and Abundance

Western Prince William Sound, Alaska

Project #38

**Annual Report
FY 2000**

DRAFT

**United States Department of Agriculture
Forest Service
Chugach National Forest
Glacier Ranger District**

October 2000

DRAFT

Cowpen Lake - Alaska Dept. of Fish and Game Stream # 222-50-12420(ADFG, 1989)

Flows into Unakwik Inlet.

Cutthroat were observed in this system.

Stream / downstream of lake - Two tributaries were scouted flowing out of the Cowpen Lake drainage. The northernmost stream was not snorkeled because of the very heavy pink spawning activity, channel braiding into a variety of small inlets from the adjacent meadow. The second tributary also had very heavy pink spawning activity. Snorkeling (116 min.) detected juvenile cutthroat (.491), Dolly Varden (.095) coho (.034), and 3 adult pink salmon (.026). approximately 12,500 adult Dolly Varden were estimated in the lower portion of the stream, and one adult coho was observed.

Lake - Rod and reel surveying (53 min.) caught only cutthroat (.528) at the outlet of the lake. Snorkeling the lake outlet (28 min.) observed adult cutthroat (2.679), adult Dolly Varden (2.786) and juvenile coho (2.607).

"Point" - Alaska Dept. of Fish and Game Stream # 222-50-no number(ADFG, 1989)

Flows into Unakwik Inlet.

No cutthroat were observed in this system.

Stream - High gradient stream was snorkeled (54 min.) observing only Dolly Varden juveniles and adults (.241). Pinks (~900) were observed spawning in tidewater. Steep creek with unstable bed and landslides, long boulder cascade and falls (6') may pose significant barrier.

"Squaw" - Alaska Dept. of Fish and Game Stream # 222-30-12920(ADFG, 1989)

Flows into Squaw Bay.

Cutthroat were observed in this system.

Stream - The mainstem (174 min.), North Fork (100 min.) and South Fork (120 min.) drainages of Squaw Creek were snorkeled. Cutthroat had a higher CPUE in the S.F. Squaw Crk. despite the fact that there fish could not go to the lake. Barriers include a 20' falls at the outlet of South Fork Pond and a ~15' falls, 500' downstream from the lake. An adult cutthroat was caught in saltwater. Pink salmon were observed spawning in the tidewater.

Squaw Creek - Catch Per Unit Effort Comparison

Squaw Creek	CPUE Cutthroat	CPUE Coho	CPUE Dolly Varden	Effort Snorkeling (min.)	Access to Lake
Mainstem	.356	.230	.034	174	----
North Fork	.220	.250	.000	100	Yes
South Fork	.358	.000	.092	120	No

Lakes - Rod and reel sampling in N.F. Squaw (83 min.) caught cutthroat (.169) and snorkeling (30 min.) observed no fish. No inlet streams to the lake were snorkeled or fished. The S.F. Squaw Lake was rod and reel sampled (75 min.) with no fish caught. Snorkeling the S.F. lake detected no cutthroat, but an interesting form of stickleback, possibly albino was caught and photographed. Significant barriers on the S.F. stream limit access to this lake.

"Blueberry" - Alaska Dept. of Fish and Game Stream # 222-30-no number(ADFG, 1989)

Flows into Squaw Bay.

Cutthroat were observed in this system.

Stream - No stream surveys were conducted.

Lake - Rod and reel sampling (85 min.) caught cutthroat (.176) and no other species. No barriers into the lake were noted, and no significant inlet streams were noted.